

Work Order ID 73614

Wednesday, September 07, 2011 2:32:40 PM

Page 1

Item ID: D3965-4

Accept

Revision ID:

Item Name: Bearing, Spherical

Start Date: 9/7/2011 Start Qty: 10.00

Required Date: 9/15/2011 Req'd Qty: 10.00

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursTool ID Tool # Plan
Code Accept Reject Reject Insp.
Qty Qty Number Stamp

Draw Nbr

Revision Nbr

D3965

Rev A

100

0.00

Purchasing

0.00

Purchasing

Memo

PURCHASING

Issue P/O:

Purchase Part Number: 63215K32 or 63215K52

Possible Supplier: McMaster

Material release note is required

110

Receive & Inspect for Damage & Mat'l Certs

0.00

Packaging

Memo

0.00

Packaging

u 11.09.08

P4/99 (10)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 73614

Wednesday, September 07, 2011 2:32:40 PM



Page 2

Item ID: D3965-4

Accept



Setup Start



Revision ID:

Stop



Item Name: Bearing, Spherical

Start Date: 9/7/2011 Start Qty: 10.00



Cust Item ID:

Required Date: 9/15/2011 Req'd Qty: 10.00



Customer:

Reference:

Run Start



Approvals: Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

120

QC6- Inspect dimensions to drawing

0.00



QC

Memo

0.00

8/11/09/12

(740)

Quality Control

130

Identify as per dwg & Stock Location: ST 100 0.00



Packaging

Memo

0.00

Packaging

SP 11-09-12

140

QC21- Final Inspection - Work Order Release 0.00



QC

Memo

0.00

Quality Control

11/9/13
MF 11-09-12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, September 07, 2011 2:32:38 PM

Page 1

Work Order ID: 73614

Parent Item: D3965-4

Parent Item Name: Bearing, Spherical



Start Date: 9/7/2011

Required Date: 9/15/2011

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP RevA: New issue DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
63215K32 Spherical Bearing		Purchased	No			110	Each	0.0000	1 	10		9/14/11	10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

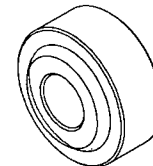
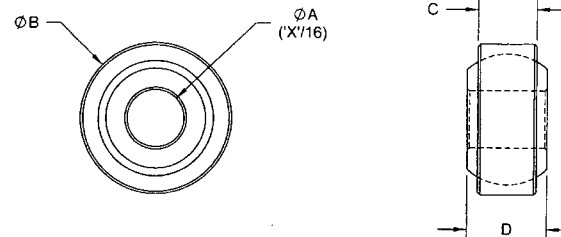
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

SPECIFICATION CONTROL DRAWING



D3965-X BEARING, SPHERICAL

WHERE 'X' IS I.D. IN 1/16" OF AN INCH
EG $\phi 1/4"$ (4/16") I.D. BEARING = D3965-4

DART P/N	SUPPLIER	SUPPLIER P/N	A	B	C	D	STATIC RADIAL LOAD CAP. lbs
D3965-3	McMASTER-CARR	63215K31	0.188	0.563	0.281	.219	3,975
D3965-4	McMASTER-CARR	63215K32 OR 63215K52	0.250	0.656	0.344	0.250	6,040
D3965-5	McMASTER-CARR	63215K53	0.313	0.750	0.375	0.281	8,750
D3965-6	McMASTER-CARR	63215K34	0.375	0.813	0.406	0.313	10,540

RELEASED
09/25/09

NOTES:

- 1) MATERIAL: 440C STAINLESS STEEL WITH PTFE LINER
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A

W/O #3614

A		NEW ISSUE		RF	09.07.09
REV.	DESCRIPTION			BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			REV. A
DRAWN	RF				
CHECKED	<i>[Signature]</i>	DRAWING NO.			SHEET 1 OF 1
MFG. APPR.	<i>[Signature]</i>	D3965			
APPROVED	<i>[Signature]</i>	TITLE			SCALE
DE APPR.	<i>[Signature]</i>	BEARING, SPHERICAL			NTS
DATE		09.07.09			
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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO14850

Purchase Order Date 9/8/2011

PO Print Date 9/8/2011

Page Number 1 of 1

Order From :

VU-MCM001

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

Handwritten signature

Contact Name
Vendor Phone 330 995 5500
Vendor Fax 330 995 9600
Vendor Account Nbr

Buyer Linda Lacelle
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency USD
FOB Destination-Collect

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1		9254T72 - Laser Thermometer	9/12/2011 No	1.00	✓	\$230.7500	\$230.75
2		3099K42 - digital Thermometer	9/12/2011 No	1.00	✓	\$20.1400	\$20.14
3	63215K52	Bearing Spherical	9/12/2011 Yes	10.00 Each	✓	\$16.6700 <i>816.70</i>	\$166.70
PO Total:							\$417.59

Change Nbr: 1

Change Date: 9/8/2011

Handwritten signature
No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

200 Aurora Industrial Parkway
Aurora OH 44202
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

McMaster-Carr Number
3361305-01

09/08/2011

Line	Description	Ordered	Shipped
1	9254T72 Pistol-Grip Infrared Thermometer, -58 to 1200 Degree F, 2% Accuracy, with NIST Certificate	1 Each	1 ✓
	Unit Price:	\$230.75	
	Extended Price:	\$230.75	
2	3099K42 NSF/Waterproof Pocket Digital Thermometer, -40 to 450 Degree F, 4-3/4" Stem Length	1 Each	1
	Unit Price:	\$20.14	
	Extended Price:	\$20.14	
3	63215K52 Stainless Steel Ball Joint Swivel Bearing, PTFE Lined, 1/4" ID, 21/32" OD, 11/32" Overall Width	10 Each	10
	Unit Price:	\$15.62	
	Extended Price:	\$156.20	

A11

1 - 662 - 01	01 - 85	T72	1 EA	1 HZ-N
1 - 661 - 02	04 - 58	K42	1 EA	2 HZ-N
3 - 483				3

8 6/09/12

Charges for this shipment

Merchandise Amount:	\$407.09
Sales Tax:	\$20.36
Total:	\$427.45

Dart Aerospace Ltd

EXP



2 lbs
3 lines

FW1WBP15
09/08/2011
08:29/08:47
966
Cycle 16

Sm
12x7x5